

# Table of Contents



<b>Table of Contents</b>	<i>i</i>
<b>List of Figures / Tables / Sidebars</b>	<i>iii</i>
<b>Acknowledgements</b>	<i>xii</i>
<b>Organization of the Plan</b>	<i>xv</i>
<b>Executive Summary</b>	<i>xix</i>
<b>1. Introduction</b>	
Geographic Scope	1-1
Watershed Science	1-5
Current Approach to Control Water Pollution	1-6
Water Pollution Control in Michigan and the U.S.	1-7
Supported Plans and Programs	1-10
Developing the Watershed Management Plan	1-11
References	1-16
<b>2. Inventory of the Subwatershed</b>	
Introduction	2-1
The Natural Environment	2-1
The People and Infrastructure	2-13
References	2-36
<b>3. Documented Subwatershed Conditions</b>	
Introduction	3-1
Environmental Impacts of Human Activity	3-1
Measuring Impacts: Water Quality Metrics	3-5
Pollution Sources and Trends	3-7
Water Chemistry Conditions – Hist. and Current	3-8
Biological Conditions – Historical and Current	3-11
Hydrologic Conditions – Historical and Current	3-15
Current Data for Planning: Visual Assessment	3-17
Analysis of Imperviousness	3-29
Current Subwatershed Protection Practices	3-32
Identified Waterbody Problems	3-35
Interpretation of Subwatershed Conditions	3-37
References	3-37
<b>4. Community Outreach and Public Involvement</b>	
Public Input Processes	4-1
Presentations to Municipal Officials	4-8
Public Education Plan	4-8
Summary	4-10
References	4-10
<b>5. Problem Analysis and Stressor Summary</b>	
Introduction	5-1
Status of Water Quality	5-1
Determining Significant Stressors	5-4
Method for Quantifying Stressors & Est. Targets	5-4
Sediment	5-7
Phosphorus	5-15
Pathogens	5-23
Other Stressors	5-29
References	5-30

## 6. Goals and Objectives

Introduction	6-1
Goals and Objectives	6-1
Decision-making Principles	6-4
Supported Plans	6-4
Epilogue	6-4
References	6-4



## 7. Watershed Protection

Introduction	7-1
Watershed Planning, Institutionalization, and Implementation	7-1
Public Education and Participation	7-2
Ordinances, Zoning, and Development Standards	7-5
Good Housekeeping and Pollution Prevention	7-14
Storm Water Management BMPs	7-17
Natural Features and Resources Management	7-23
Recreation Enhancement and Promotion	7-29
Monitoring	7-30
Summary	7-35
References	7-36



## 8. Implementation Roadmap

Introduction	8-1
Actions to Achieve Goals and Objectives	8-3
Action Details	8-30
Financial and Technical Assistance	8-31
Pollutant Load Reductions	8-40
Decision-making Principles & Prioritization Proc.	8-46
References	8-46



## 9. Evaluating and Revising the Plan

Introduction	9-1
Elements of Watershed Planning	9-1
Evaluation Procedure	9-4
Guidance for Revision of the WMP	9-15
References	9-15



## 10. Institutionalization of the WMP

Introduction	10-1
Structure	10-1
Legal Relationships	10-3
Funding	10-3
Implementation and Funding	10-7
References	10-10



- A. Acronyms / Definition of Terms
- B. NPDES Permit MIG619000
- C. Stakeholder Contact Information
- D. Public Involvement Summaries
- E. Dissenting Viewpoints

